

AMENDMENTS TO THE ABSTRACT OF THE DISCLOSURE

Please replace the Abstract of the Disclosure with the following amended Abstract of the Disclosure:

ABSTRACT OF THE DISCLOSURE

A method of active queue management, for handling prioritized traffic in a packet transmission system, the method including: providing differentiation between traffic originating from rate adaptive applications that respond to packet loss, wherein traffic is assigned to one of at least two drop precedent levels in-profile and out-profile; preventing starvation of low prioritized traffic; preserving a strict hierarchy among precedence levels; providing absolute differentiation of traffic; and reclassifying a packet of the traffic of the packet transmission system, tagged as in-profile, as out-profile, when a drop probability assigned to the packet is greater than a drop probability calculated from an average queue length for in-profile packets.